



MACOMB TOWNSHIP BUILDING DEPT
54111 BROUGHTON ROAD
MACOMB MI 48042

TEL: (586) 992-0710
FAX: (586) 992-0720

OUTLINE PROCEDURE FOR ERECTING ABOVE GROUND AND INGROUND POOLS CONTAINING MORE THAN 2FT OF WATER

PERMITS: OWNER OR BUILDER APPLIES.

BOND TO BE POSTED: A \$500.00 (FOR INGROUND) AND \$250.00 (FOR ABOVE GROUND) BOND MUST BE POSTED AT THE TIME THE PERMIT IS TO BE PICKED UP. THE BOND RETURN PROCESS WILL BEGIN AFTER A FINAL BUILDING INSPECTION HAS BEEN APPROVED.

PLOT PLANS: (3 REQUIRED – OBTAINED FROM BUILDING DEPT) SHOWING LOCATION OF POOL, IT'S RELATION TO EXISTING BUILDINGS, PROPERTY LINES, PLATFORMS, OTHER STRUCTURES, OVERHEAD WIRES, LOCATION OF SEPTIC TANK AND FIELD. FOR INGROUND POOLS, SEE SITE PLAN PROCEDURES.

PLANS OR BROCHURES: (2) REQUIRED SHOWING TYPE OR CONSTRUCTION – SUPPLY ADDITIONAL DETAILS IF REQUIRED.

LOCATION: POOL, PLATFORM OR OTHER STRUCTURES SHALL BE LOCATED 10 FEET FROM OVERHEAD LINES, 6 FEET FROM REAR LOT LINE, and 7.5 FEET FROM SIDE LOT LINES. NO POOL MAY BE LOCATED IN AN EASEMENT WITHOUT CONSENT OF CONTROLLING AGENT. POOLS MAY NOT BE LOCATED ON SANITARY FIELD OR SEPTIC TANK. 25' SETBACK IS REQUIRED ON CORNER LOTS AND LOTS ADJACENT TO A MILE ROAD MUST MAINTAIN A 30' REAR YARD SETBACK. INGROUND AND ABOVE GROUND POOLS MUST BE 10' FROM HOUSE.

FENCING: POOL AREA OR YARD SHALL BE COMPLETELY FENCED WITH GATE HAVING SELF-CLOSING AND SELF-LATCHING DEVICE – OR APPROVED ALTERNATE METHOD OFFERING EQUAL PROTECTION TO SMALL CHILDREN. **FENCE PERMIT TO BE PULLED SIMULTANEOUSLY WITH POOL PERMIT.**

FILTERING SYSTEM: POOL TO HAVE APPROVED FILTERING SYSTEM. OUTSIDE WATER SUPPLY TO HAVE VACUUM BREAKER (HOSE FAUCET).

ALL MATERIAL AND CONSTRUCTION PROCEDURE: TO FOLLOW MICHIGAN STATE CONSTRUCTION CODE.

ELECTRIC PERMIT: REQUIRED WITH ANY ELECTRICAL WORK. IF ELECTRICAL WORK IS NEEDED, DO NOT COVER TRENCH BEFORE IT IS INSPECTED.

PLUMBING & HEATING PERMIT: REQUIRED WITH ANY PLUMBING OR HEATING WORK.

INSPECTIONS: BEFORE WORK IS COVERED OR BEFORE COMPLETELY FILLING POOL.

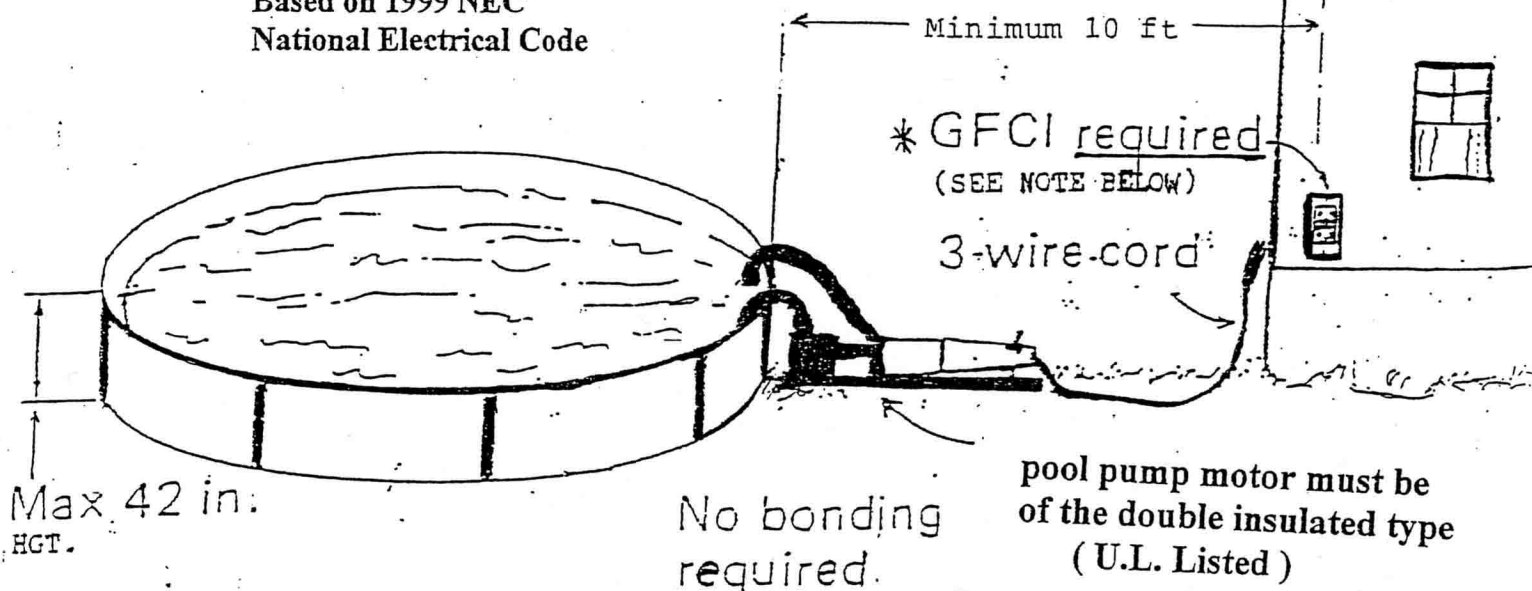
REGISTRATION: ALL BUILDERS TO BE REGISTERED. ALL ELECTRICAL AND MECHANICAL CONTRACTORS TO BE REGISTERED.

SPECIAL CONDITIONS: MAY REQUIRE APPROVAL OF TOWNSHIP BOARD, PLANNING OR ZONING BOARD OF APPEALS.

SEE ATTACHMENTS FOR STATE ENTRAPMENT REQUIREMENTS

constructed on or above the ground and are capable of holding water to a maximum depth of 42 in. (1.07 m), or a pool with nonmetallic, molded polymeric walls or inflatable fabric walls regardless of dimension.

Based on 1999 NEC
National Electrical Code



STORABLE POOLS ONLY. The type of pump suitable for use with storable pools has a 25-foot flexible cord and attachment plug. It is marked:

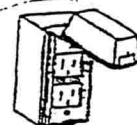
"This Pump is for Use with Storable Pools Only. - DO NOT USE with Permanently Installed Pools. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage." Cords may NOT be shortened nor shall attachment caps be changed to a different type. If a listed double insulated pump motor comes with a shorter cord, the assembly must be located so that the cord will reach an electrical outlet at least ten feet away from the pool.

LISTING MARK. The UL Listing Mark for these products accompanies the product name "Underwater Lighting Fixture for Above Ground Storable Swimming Pool."

DOUBLE INSULATION. Pumps with a minimum 25-foot supply cord are double insulated and have inaccessible metal parts grounded with the equipment grounding conductor terminated at the attachment plug. These pumps do not have a bonding connector.

GFCI. These units are intended for connection to circuits protected by ground fault circuit interrupts and are marked, "WARNING - Risk of electric shock. Connect only to a grounding type receptacle protected by a ground fault circuit interrupter (GFCI)."

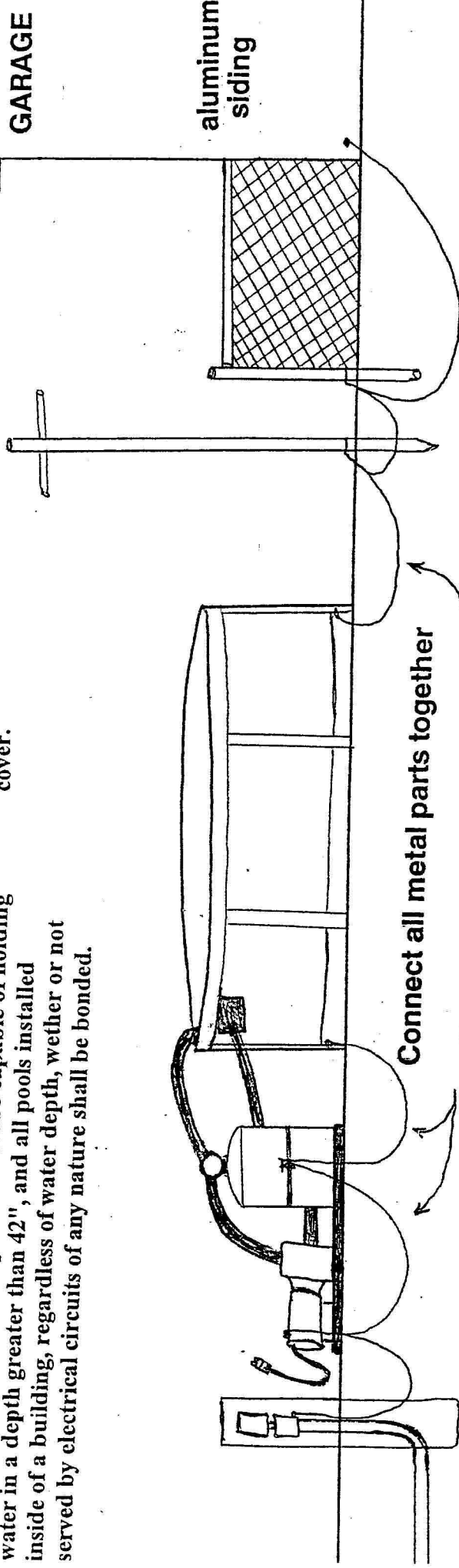
*Note: Outlet Will Require a Raintite While In Use Cover.
Distance from pool to receptacle shall be at least 10 Ft.



Bond all metal parts that
are within five feet of the pool.

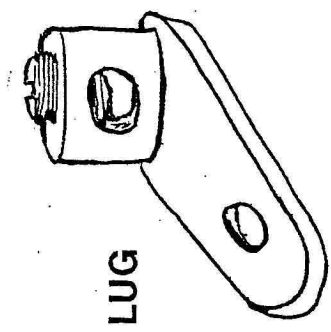
All pools which are constructed in the ground or partially in the ground, and all other pools which are capable of holding water in a depth greater than 42", and all pools installed inside of a building, regardless of water depth, wether or not served by electrical circuits of any nature shall be bonded.

Do not bond double insulated pool motors/pumps which are double insulated and have a nonmetallic cover.



Connect all metal parts together
with #8 solid copper conductor .
not stranded

Bond to the structural reinforcing steel. The steel must be continuous around the pool by welding or bolting . If not continuous, bond to each metallic section.



LUG

Use stainless steel, brass, copper, or copper alloy, lugs and hardware.

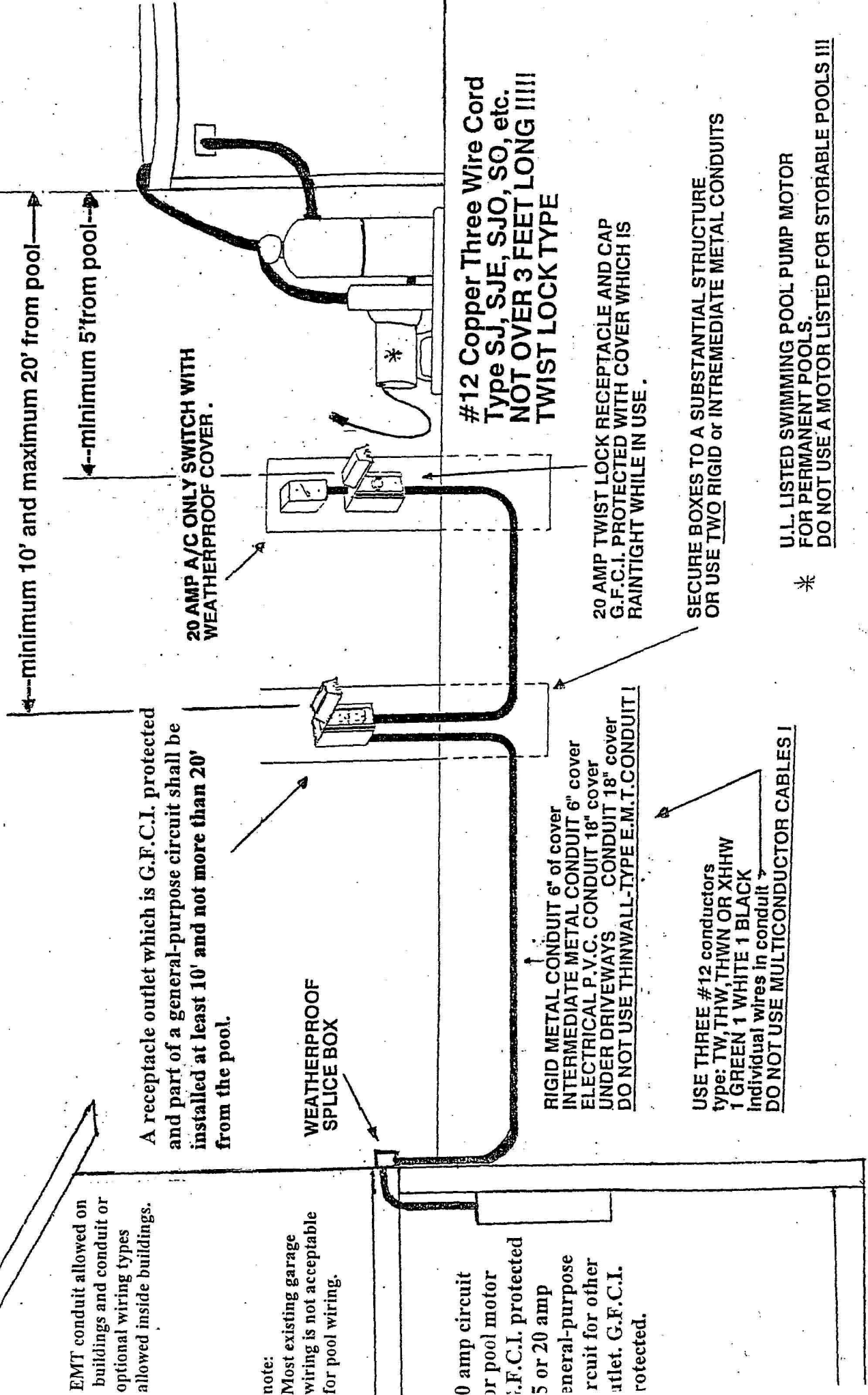
PERMANENT SWIMMING POOL WIRING

1999 NEC

EMT conduit allowed on buildings and conduit or optional wiring types allowed inside buildings.

note:
Most existing garage wiring is not acceptable for pool wiring.

0 amp circuit or pool motor G.F.C.I. protected 5 or 20 amp general-purpose circuit for other outlet. G.F.C.I. protected.



#12 Copper Three Wire Cord
Type SJ, SJE, SJO, SO, etc.
NOT OVER 3 FEET LONG!!!!
TWIST LOCK TYPE

20 AMP TWIST LOCK RECEPTACLE AND CAP
G.F.C.I. PROTECTED WITH COVER WHICH IS
RAINTIGHT WHILE IN USE.

SECURE BOXES TO A SUBSTANTIAL STRUCTURE
OR USE TWO RIGID or INTERMEDIATE METAL CONDUITS

* U.L. LISTED SWIMMING POOL PUMP MOTOR
FOR PERMANENT POOLS.
DO NOT USE A MOTOR LISTED FOR STORABLE POOLS !!!

RIGID METAL CONDUIT 6" of cover
INTERMEDIATE METAL CONDUIT 6" cover
ELECTRICAL P.V.C. CONDUIT 18" cover
UNDER DRIVEWAYS CONDUIT 18" cover
DO NOT USE THINWALL-TYPE E.M.T. CONDUIT !

USE THREE #12 conductors
type: TW, THW, THWN OR XHHW
1 GREEN 1 WHITE 1 BLACK
Individual wires in conduit
DO NOT USE MULTICONDUCTOR CABLES !

Must also comply with bonding requirements on next page

- zontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches (44 mm).
 7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches (44 mm).
 8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and
 - 8.2. The gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
 9. Where a wall of a dwelling serves as part of the barrier one of the following conditions shall be met:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or
 - 9.2. All doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.
 10. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool

structure, and the means of access is a ladder or steps, then:

- 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access, or
- 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool. All walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

SECTION AG106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or other such multiple suction outlets whether isolated by valves or otherwise shall be protected against user entrapment.

AG106.2 Suction fittings. All Pool and Spa suction outlets shall be provided with a cover that conforms with ANSI/ASME A112.19.8M, or a 12" × 12" drain grate or larger, or an approved channel drain system.

Exception: Surface skimmers

AG106.3 Atmospheric vacuum relief system required. All pool and spa single or multiple outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. Such vacuum relief systems shall include at least one approved or engineered method of the type specified herein, as follows:

1. Safety vacuum release system conforming to ASME A112.19.17, or
2. An approved gravity drainage system

AG106.4 Dual drain separation. Single or multiple pump circulation systems shall be provided with a minimum of two (2) suction outlets of the approved type. A minimum horizontal or vertical distance of three (3) feet shall separate such outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum relief-protected line to the pump or pumps.

AG106.5 Pool cleaner fittings. Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least (6) inches and not greater than twelve (12) inches below the minimum operational water level or as an attachment to the skimmer(s).

Site Plan Procedures for Rear Yard Swimming Pools:

Application for a Pool Permit must be obtained at the Building Department, located at 54111 Broughton Road Macomb MI 48042.

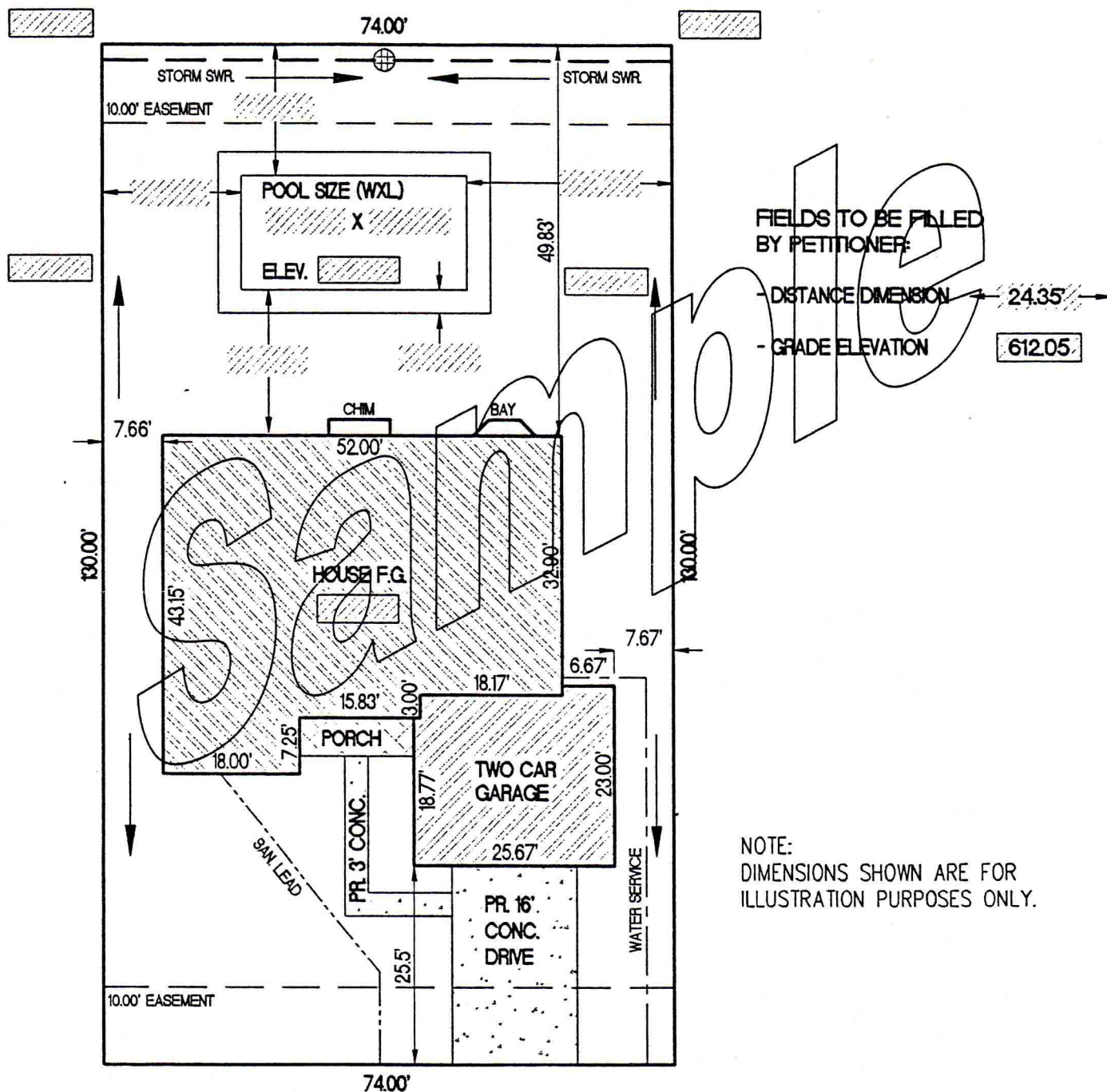
- A. Application and approved site plan must be obtained at the Building Department. If the approved site plan is more than a 1-20 scale, redraw the site plan to a 1-20 scale on a separate sheet of paper and attach it to the original site plan. Show all easements (no freehand drawings or faxes will be accepted) and include the following.
 - 1. Pool size and location with distance dimensions from the rear of the house, from the rear and side of the lot line and the size of the decking or concrete walk around the pool.
 - 2. Grade elevations of the top of the pool, rear property corners, side yard elevations and the house elevation at the brick ledge.
 - 3. Location and type of fence surrounding the pool or property.
- B. A \$500.00 bond must be posted at the time the permit is to be picked up.
- C. Prior to steel or sand (for fiberglass pools) inspection, you must mark the property line and a grade stake with the elevation of both the house and pool set at the front of the pool.
- D. Concrete decking or walks cannot vary from approved site plan. Any changes must be submitted on a revised site plan for approval. **Note:** Any variation of concrete will result in a stop work order being placed immediately.
- E. A sample site plan has been included in this packet with the requested information. Pool site plans are reviewed by the Water and Sewer Department and returned to the Building Department. **Do Not** by-pass the Building Department with the site plan, since the Water and Sewer Department will not accept a pool site plan until an application has been activated.
- F. Pool and or pool decking that infringe into a rear or side yard easement must have prior approval from the Water and Sewer Department. Once approved, an **Easement Encroachment Document** must be processed along with a \$15.00 processing fee. The Macomb Township Board of Trustees grants final approval, which meets every 2nd and 4th Wednesday of each month. Instructions are included in this packet.

Once all the above items are approved, the documents are returned to the Building Department for permit processing. The above process may take several weeks to complete.

Bond return process will begin after an approved final building inspection has been approved.

Any questions in regard to the site plan procedure call the Macomb Township Water and Sewer Department at (586) 598-0687 or Building Department at (586) 992-0710.

SAMPLE SITE PLAN FOR POOLS



NOTE:
DIMENSIONS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY.

SECTION N/A TOWN 3 NORTH, RANGE 13 EAST

MACOMB TOWNSHIP

MACOMB COUNTY, MICHIGAN

SPALDING DeDECKER ASSOCIATES, INC.



DRAWN: ABDULRAZAK

DATE: 05-24-99

ENGINEERS

SURVEYORS

APPROVED: .

DATE: .

905 SOUTH BLVD. EAST, ROCHESTER HILLS, MI 48307

PHONE (248) 844-5400 FAX (248) 844-5404 www.spaldingdedecker.com

SCALE: 1" = 20'

JOB NO MA99-19

MANDATORY AFFIDAVIT
ALL INGROUND POOLS

I, _____ as the owner or authorized agent of the
_____ pool company state that I will install the pool at
_____ as per approved site plan and comments from
the Macomb Township Building and Water and Sewer Departments. This
includes approved elevations, pool size and location and retaining wall if
required.

I will follow the township procedures for rear yard swimming pools. This includes
marking of property lines and installing a grade stake with elevation of house and
pool. As the permit holder, it is my responsibility to ensure the pool meets all
state and township codes.

I further agree to comply with the following:

1. Give the homeowner a copy of the approved site plan and
comments.
2. Post an additional copy of the approved site plan and
comments on the site in a visible location.
3. Inform the homeowner that there can be no variation
including concrete from the approved site plan and comments.

Owner/ Representative _____

Address _____

Drivers license number _____

Note: Any variation from the approved site plan will result in a stop work order
and require complete resubmission for approval to both Water & Sewer and
Building Departments.